

Appl. No. 10/688,118
Atty. Docket No. 9066M2
Reply to Office Action of 07/21/06
Customer No. 27752

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CURRENT LISTING OF CLAIMS

1. (Previously Presented) A composition suitable for atomizing without excessive aerosolization in the form of an oil-in-water emulsion comprising:
 - a) a continuous aqueous phase,
 - b) a discontinuous oil phase;
 - c) softening active ingredient;wherein a) and b) comprise an oil-in-water emulsion and the rheology of the aqueous phase is modified by the addition of a water-in-oil emulsion into the oil-in-water emulsion, the water-in-oil emulsion comprising:
 - i) a high molecular weight polymer in a discontinuous aqueous phase, and
 - ii) a continuous organic solvent phase.
2. (Previously Presented) A composition according to Claim 1 wherein the continuous aqueous phase of the oil-in-water emulsion comprises less than about 45% by weight of the composition.
3. (Previously Presented) A composition according to Claim 1 wherein the high molecular weight polymer comprises from about 0.0005% to about 0.5% by weight of the composition.
4. (Previously Presented) A composition for softening an absorbent paper tissue comprising:
 - a) a quaternary ammonium softening active ingredient;
 - b) an electrolyte;
 - c) a vehicle in which said softening active ingredient is dispersed;wherein the rheology of the composition is modified by the addition of a water-in-oil emulsion comprising:
 - i) from about 20% to about 40% by weight of the premix of a high molecular weight polymer;
 - ii) from about 40% to about 60% of water; and
 - iii) from about 20% to about 40% of an organic solvent.
5. (Previously Presented) A composition according to Claim 4 wherein the polymer is a cationic polymer

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6. (Previously Presented) A composition for softening an absorbent paper tissue comprising:
 - a) from about 10% to about 60% by weight of the composition of a quaternary ammonium softening active ingredient;
 - b) an electrolyte;
 - c) from about 0.0005% to about 0.5% of a high molecular weight polymer; and
 - d) an aqueous vehicle in which said softening active ingredient is dispersed[[]]; wherein the rheology of the aqueous vehicle is modified by the addition of a water-in-oil emulsion comprising:
 - i) the high molecular weight polymer in a discontinuous aqueous phase, and
 - ii) a continuous organic solvent phase.

7. (Previously Presented) The composition of Claim 6 wherein said softening active ingredient is selected from the group consisting of quaternary compounds; mono-, di-, and tri-ester quaternary ammonium compounds, and mixtures thereof.

8. (Previously Presented) The composition of Claim 7 wherein said softening active ingredient is a mono-, di-, or tri-ester quaternary ammonium compound having the formula:

$$(R_1)_{4-m} - N^+ - [(CH_2)_n - Y - R_3]_m X^-$$
 wherein Y is -O-(O)C-, or -C(O)-O-, or -NH-C(O)-, or -C(O)-NH-;
 m is 1 to 3; n is 0 to 4; each R₁ is a C₁-C₆ alkyl or alkenyl group, hydroxyalkyl group, hydrocarbyl or substituted hydrocarbyl group, alkoxyated group, benzyl group, or mixtures thereof;
 each R₃ is a C₁₃-C₂₁ alkyl or alkenyl group, hydroxyalkyl group, hydrocarbyl or substituted hydrocarbyl group, alkoxyated group, benzyl group, or mixtures thereof; and
 X⁻ is any softener-compatible anion.

9. (Previously Presented) The composition of Claim 8 wherein m is 3, n is 2, R₁ is methyl, R₃ is C₁₅-C₁₇ alkyl or alkenyl, and Y is -O-(O)C-, or -C(O)-O-.

10. (Previously Presented) The composition of Claim 4 further comprising from about 2% to about 75% by weight of a plasticizer.

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11. (Previously Presented) The composition of Claim 4 wherein the electrolyte comprises up to about 15% by weight of the composition.
12. (Previously Presented) The composition of Claim 4 further comprising from about 1% to about 20% by weight of the composition of a bilayer disrupter.
13. (Previously Presented) The composition of Claim 4 wherein the vehicle is water.
14. (Previously Presented) A composition for softening an absorbent tissue comprising:
 - a) from about 25% to about 45% by weight of a quaternary ammonium softening active ingredient;
 - b) from about 0.0005% to about 0.2% by weight of a high molecular weight polymer delivered to the composition in the form of a water-in-oil emulsion comprising the high molecular weight polymer, water and an organic solvent.
 - c) from about 5% to about 50% by weight of a plasticizer;
 - d) from about 0.1% to about 10% by weight of an electrolyte; and
 - e) a vehicle consisting of water, in which said softening active ingredient is dispersed.
15. (Previously Presented) A soft tissue paper product, said soft tissue paper product comprising:
 - a) one or more plies of a tissue paper; and
 - b) a chemical softening composition deposited on at least one outer surface of said tissue, said chemical softening composition comprising:
 - i) a quaternary ammonium softening active ingredient;
 - ii) an electrolyte;
 - iii) a high molecular weight polymer emulsion comprising:
 - A) from about 20% to about 40% by weight of the premix of a high molecular weight polymer;
 - B) from about 40% to about 60% of water; and
 - C) from about 20% to about 40% of an organic solvent; and
 - iv) a vehicle in which said softening active ingredient is dispersed.
16. (Previously Presented) The tissue paper according to Claim 15 wherein the chemical softening composition is deposited onto the paper as a spray.

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17. (Previously Presented) The tissue paper of Claim 15 wherein said chemical softening composition is deposited as uniform, discrete surface deposits, spaced apart at a frequency between about 5 areas per lineal inch and about 100 areas per lineal inch.
18. (Previously Presented) The tissue paper of Claim 15 wherein softening active ingredient is a quaternary ammonium compound having the formula:
$$(R_1)_{4-m} - N^+ - [(CH_2)_n - Y - R_3]_m X^-$$

wherein Y is -O-(O)C-, or -C(O)-O-, or -NH-C(O)-, or -C(O)-NH-;
m is 1 to 3; n is 0 to 4; each R₁ is a C₁-C₆ alkyl or alkenyl group, hydroxyalkyl group, hydrocarbyl or substituted hydrocarbyl group, alkoxyated group, benzyl group, or mixtures thereof;
each R₃ is a C₁₃-C₂₁ alkyl or alkenyl group, hydroxyalkyl group, hydrocarbyl or substituted hydrocarbyl group, alkoxyated group, benzyl group, or mixtures thereof; and
X⁻ is any softener-compatible anion.
19. (Previously Presented) The tissue paper of Claim 18 wherein the softening composition comprises:
- a quaternary ammonium softening active ingredient;
 - an electrolyte;
 - from about 0.0005% to about 0.01% of a high molecular weight polymer; and
 - a vehicle in which said softening active ingredient is dispersed.
20. (Previously Presented) The tissue paper of Claim 18 wherein the softening composition comprises:
- from about 25% to about 45% by weight of a quaternary ammonium softening active ingredient;
 - from about 0.0005% to about 0.2% by weight of a high molecular weight polymer delivered to the composition in the form of an emulsion comprising the high molecular weight polymer, water and an organic solvent.
 - from about 5% to about 50% by weight of a plasticizer;
 - from about 0.1% to about 10% by weight of an electrolyte; and
 - a vehicle consisting of water, in which said softening active ingredient is dispersed.